CONTENTS

PAGE

MINUTES OF PROCEEDINGS, 1961–1962 i

SPONGIAIRES D'AFRIQUE DU SUD. (1) POECILOSCLERIDES. By C. LEVI, Faculté des Sciences de Strasbourg. (With seventy-five text-figures and Plates I–X) 1

A FOSSIL CEPHALOPOD FROM THE MIDDLE ECCA BEDS IN THE KLIP RIVER COALFIELD NEAR DUNDEE, NATAL. By M. H. P. RILETT. (With Plate XI) 73

ON THE DERIVATION OF MAGNETIC SECULAR VARIATION FROM FIELD OBSERVATIONS. By G. L. M. SCHEEPERS, Magnetic Observatory, Hermanus. (With five text-figures) 75

PRESIDENTIAL ADDRESS: MIGRATIONS AND THE ORIGINS OF THE CAPE FLORA. By M. R. LEVYNS 85

ON A NEW BOTTOM DREDGE. By P. ZOUTENDYK, C.S.I.R. Oceanographic Research Unit, University of Cape Town. (With Plate XII) . . . 109

RED WATER AND MARINE FAUNA MORTALITY NEAR CAPE TOWN. By J. R. GRINDLEY, South African Museum and F. J. R. TAYLOR, University of Cape Town. (With three text-figures and Plate XIII) 111

HYBRIDIZATION EXPERIMENTS WITH ACHEILOGNATHINE FISHES (CYPRINIDAE). INTERGENERIC HYBRIDS BETWEEN *Paracheilognathus rhombeus* AND *Acheilognathus lanceolatus*. By J. J. DUYVENÉ DE WIT, University of the Orange Free State. (With two text-figures and Plate XIV) 131

CHARACTERISTICS OF *Acheilognathus lanceolatus* and *Rhodeus sericeus amarus* HYBRIDS. By J. HOLČÍK, Charles University, Prague, Czechoslovakia, and J. J. DUYVENÉ DE WIT, University of the Orange Free State. (With two text-figures and Plate XV) 139

PRESIDENTIAL ADDRESS: SCIENCE AND THE FUTURE OF THE MINING AND MINERAL INDUSTRIES. By W. S. RAPSON 147

PROBLEMS OF LIMB EXTENSION IN THE SCORPION, *Opisthophthalmus latimanus* KOCH. By A. J. ALEXANDER, Rhodes University, Grahamstown. (With seven text-figures) 165

SPONGIAIRES D'AFRIQUE DU SUD. (2) CALCAREA. By R. BOROJEVIC, Faculté des Sciences de Strasbourg. (With twenty-five text-figures and Plate XVI) 183

SPONGIAIRES D'AFRIQUE DU SUD. (3) TETRACTINELLIDES. By C. LEVI, Faculté des Sciences de Strasbourg. (With twenty-four text-figures and Plates XVII–XIX) 227